CLAIMPTO

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5. (Currently amended) A carrier protein ~~according to claim 4,~~ that comprises a P23TT, P32TT, P21TT, ~~PfCs~~ PFT3, P30TT, P2TT, HBVnc, ~~HA~~ influenza hemagglutinin (HA), HbsAg and ~~MF~~ influenza matrix (MT) CD4+ T cell ~~epitope~~ epitopes.

6. (Currently amended) ~~A~~ The carrier protein according to claim ~~4~~ 5, that further comprises a ~~P23TT, P32TT, P21TT, PfCs, P30TT, P2TT, HBVnc, HA, HbsAg, MF and~~ an hsp70 CD4+ T cell epitope.

33. (Currently amended) ~~A~~ The carrier protein according to claim 5, wherein the CD4+ T cell epitopes are human CD4+ T cell epitopes.

34. (Currently amended) A The carrier protein according to claim 6, wherein the CD4+ T cell epitopes are human CD4+ T cell epitopes.

35. (Currently amended) A The carrier protein according to claim 5, wherein the carrier protein is in an oligomeric form.

36. (Currently amended) A The carrier protein according to claim 6, wherein the carrier protein is in an oligomeric form.

37. (Currently amended) A The carrier protein according to claim 5, conjugated to a polysaccharide.

38. (Currently amended) ~~A~~ The carrier protein according to claim 6, conjugated to a polysaccharide.

41. (Previously presented) A vaccine comprising the carrier protein according to claim 5.

42. (Previously presented) A vaccine comprising the carrier protein according to claim 6.

13. (Currently amended) ~~A~~ The carrier protein according to claim ~~11~~ 37, wherein the polysaccharide is from ~~any one of the following organisms:~~ *S. pneumoniae*, *N. meningitidis*, *S. aureus*, *Klebsiella*, or *S. typhimurium*.

14. (Currently amended) ~~A~~ The carrier protein according to claim ~~11~~ 37, wherein the polysaccharide is conjugated to the carrier protein by a covalent linkage.

39. (Currently amended) ~~A~~ The carrier protein according to claim 37, wherein the polysaccharide is an *Haemophilus influenzae* type B polysaccharide.

40. (Currently amended) ~~A~~ The carrier protein according to claim 38, wherein the polysaccharide is an *Haemophilus influenzae* type B polysaccharide.

15. (Currently amended) ~~A~~ The carrier protein according to claim ~~11~~ 37, wherein the polysaccharide is conjugated to the carrier protein by reductive amination.

43. (Previously presented) A vaccine comprising the carrier protein according to claim 39.

44. (Previously presented) A vaccine comprising the carrier protein according to claim 40.